

Emulsions and Solubilization

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TABLE 2.11 HLB Numbers Required to Emulsify Various Oil Phases (3,24)

Oil Phase	W/O Emulsion	O/W Emulsion
Acetophenone	—	14
Acid, dimer	—	14
Acid, lauric	—	16
Acid, linoleic	—	16
Acid, oleic	—	17
Acid, ricinoleic	—	16
Acid, stearic	—	17
Alcohol, cetyl	—	15
Alcohol, decyl	—	14
Alcohol, lauryl	—	14
Alcohol, tridecyl	—	14
Benzene	—	15
Carbon tetrachloride	—	16
Castor oil	—	14
Chlorinated paraffin	—	8
Cyclohexane	—	15
Kerosene	—	14
Lanolin, anhydrous	8	12
Oil		
Mineral, aromatic	4	12
Mineral, paraffinic	4	10
Mineral spirits	—	14
Petrolatum	4	7-8
Pine Oil	—	16
Propene, tetramer	—	14
Toluene	—	15
Wax		
Beeswax	5	9
Candelilla	—	14-15
Carnauba	—	12
Microcrystalline	—	10
Paraffin	4	10
Xylene	—	14